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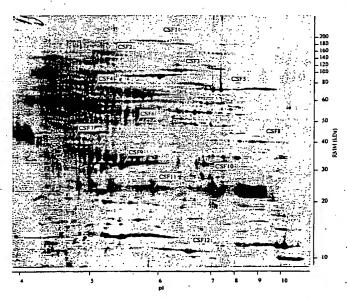
- (71) Applicant (for all designated States except US): ONFORD GLY COSCIENCES (UK) LTD. [GB/GB]; The Forum, 86 Milton Park, Abingdon, Oxon OX14 4RY (GB).
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[Continued on next page]

(54) Title: PROTEINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF VASCULAR DEMENTIA



(57) Abstract: The present invention provides methods and compositions for screening, diagnosis and prognosis of Vascular Dementia, for monitoring the effectiveness of Vascular Dementia treatment, identifying patients most likely to respond to a particular therapeutic treatment and for drug development. Vascular Dementia-Associated Features (VFs), detectable by two-dimensional electrophoresis of cerebrospinal fluid, serum or plasma are described. The invention further provides Vascular Dementia-Associated Protein Isoforms (VPIs) detectable in cerebrospinal fluid, serum or plasma, preparations comprising isolated VPIs, antibodies immunospecific for VPIs, and kits comprising the aforesaid.





Published:

- with international search report

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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mational Application No PCT/GB 01/01106

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N33/68 C07K14/47

A61P9/10

A61P25/28

A61K38/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

GO1N CO7K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, MEDLINE, EMBASE, BIOSIS, EMBL, WPI Data, PAJ, INSPEC

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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the an which is not considered to be of particular relevance. 'E' earlier document but published on or after the international filing date. 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified). 'O' document reterring to an oral disclosure, use, exhibition or other means. 'P' document published prior to the international filing date but later than the priority date claimed.	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 8 January 2002	Date of mailing of the international search report 2 3. 01 2002
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer Gundlach, B

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International application No. PCT/GB 01/01106

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation 11t in 101 instance)
*	and a Adjoin 17/2\/a\ for the following reasons:
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
*	see FURTHER INFORMATION sheet PCT/ISA/210
<u>, </u>	Claims Nos.:
ا ۲۰	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
•	an extent that no meaningful international Search earlier be same but, oppositions,
з. 🗌	Claims Nos.:
ىي.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
•	
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
	ernational Searching Authority found multiple inventions in this international application, as follows:
This int	ernational Searching Authority found multiple invertible in the management of the ma
;;·	see additional sheet
	As all required additional search lees were timely paid by the applicant, this International Search Report covers all
1	As all required additional seafch lees were littlely paid by the application and the seafch lees were little and the seafch lees w
ا ما	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
2	of any additional fee.
3. X	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
ļ .	All claims relating to (VF-4) VPI-2, VPI-29, VPI-15, VPI-21, VPI-273 and
i	VPI-154
	The second by the applicant Consequently, this International Search Report is
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1.	
 	rk on Protest The additional search fees were accompanied by the applicant's protest.
I. Hema	o , 101000
	No protest accompanied the payment of additional search fees.
1,0	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 24, 25, or 26 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.1

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: Invention 1: Claims 1-7 (partially)

Diagnosis of vascular dementia using VF-4 as marker.

2. Claims: Inventions 2-712: Claims 1-46 (all partially)

Diagnosis or treatment of vascular dementia using one of VF-5 to VF-372 or one of VPI-2 to VPI-273 as marker/target.

3. Claims: Invention 713: 47-54 (fully)

Method of screening for agents effective for the treatment of vascular dementia involving IGF-II

4. Claims: Invention 714: Claims 55-62 (fully)

Method of screening for agents effective for the treatment of vascular dementia involving $\mathsf{TIMP}\mathbf{-1}$

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Information on patent family members

- mational Application No PCT/GB 01/01106

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